

#### SB140

	S	B140	
1.0AMP. SCH	оттку	BARRIER RECTIFIERS	
FEATURE		<u>DO-41</u>	
		$\begin{array}{c} 1.0(25.4) \\ MIN. \\ \underline{.205(5.2)} \\ 1.0(25.4) \\ \underline{.166(4.2)} \\ 1.0(25.4) \\ MIN. \\ \underline{.10(25.4)} \\ MIN. \\ \underline{.032(0.8)} \\ 0.25(0.65) \\ DIA. \\ \underline{.025(0.65)} \\ \underline$	
Ratings at 25°C ambient temperature unless other Single phase, half wave, 60Hz, resistive or inducti		ified. For capacitive load, derate current by 20%	
Type Number	SYM BOL	SB140	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	
Maximum RMS Voltage	V <sub>RMS</sub>	28	
Maximum DC blocking Voltage	VDC	40	
Maximum Average Forward Rectified Current .375"(9.5mm) lead length	I <sub>F(AV)</sub>	1.0	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30.0	
Maximum Forward Voltage at 1.0A DC	VF	0.55	
Maximum DC Reverse Current @T <sub>J</sub> =25°C	IR	0.2 m/	
at rated DC blocking voltage @T <sub>J</sub> =100°C		10.0	
Typical Junction Capacitance (Note1)	CJ	60 pF	
Typical Thermal Resistance (Note2)	$\begin{array}{c c} R_{(JA)} \\ \hline R_{(JC)} \end{array}$	75 25	
Temperature Storage	<b>T</b> <sub>STG</sub>	-55 to +150 °C	
Operating Junction Temperature	TJ	-55 to +125 °C	

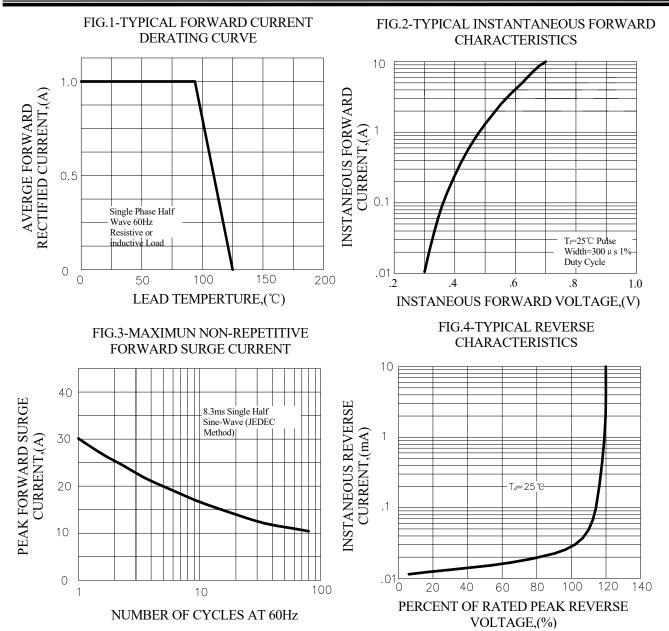
Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C.Board Mounted.



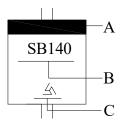
#### **RATING AND CHARACTERISTIC CURVES**





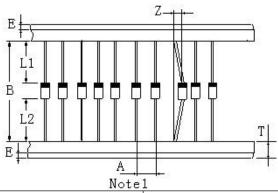
### Marking and packaging illustration

# 1、Marking



SYMBOL	Explanation	
Α	Color Band Denotes Cathode	
В	Product Name	
С	Trademark	

## 2、Packaging



ITEM	SYMBOL	SPECIFICATIONS (mm)	SPECIFICATIONS (inch)
Component alignment	Z	1.2max	0.048max
Tape width	Т	6.0±0.4	<b>0.236</b> ±0.016
Exposed adhesive	Е	0.8max	0.032max
Body eccentricity	L1-L2	1.0max	0.040max
Component	А	5.0±0.5	$0.2 \pm 0.02$
Inner tap	В	52.0~53.5	2.05~2.11
NOTE:			

Each component lead shall be sandwiched between tapes for a minimum of 2.5mm (0.1inch)